RF AMPLIFIER

MODEL  BXMP1029

Features
- Ultra High Second Order Intercept: +91 dBm Typical
- High Output Power: +31.5 dBm Typical
- Environmental Screening Available

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>1 - 35 MHz</td>
<td>1 - 35 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>12</td>
<td>11 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>31.5</td>
<td>30 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-15</td>
<td>-14 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>1.8:1</td>
<td>2:0:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>1.8:1</td>
<td>2:0:1 Max.</td>
</tr>
<tr>
<td>Noise figure (dB)</td>
<td>4</td>
<td>5.0 Max.</td>
</tr>
<tr>
<td>Vdc Power mA</td>
<td>+15</td>
<td>+15</td>
</tr>
<tr>
<td>mA</td>
<td>400</td>
<td>425 Max.</td>
</tr>
</tbody>
</table>

Note: Care should always be taken to effectively ground the case of each unit.

Typical Intermodulation Performance at 25 °C
- Second Order Harmonic Intercept Point .......... +93 dBm (Typ.)
- Second Order Two Tone Intercept Point .......... +91 dBm (Typ.)
- Third Order Two Tone Intercept Point .......... +48 dBm (Typ.)

Absolute Maximum (NO DAMAGE) Ratings
- Ambient Operating Temperature ............. -55°C to + 100 °C
- Storage Temperature ...................... -62°C to + 125 °C
- Case Temperature ................................+ 125 °C
- DC Voltage ..................................... + 18 Volts
- Continuous RF Input Power ......................... + 13 dBm
- Short Term RF Input Power .... 100 Milliwatts (1 Minute Max.)
- Maximum Peak Power ................. 0.5 Watt (3 µsec Max.)

Medium Power Amplifier

Available as: BXMP1029, SMA Connectorized Housing
BXMP1029LF (Lead-Free Version)

www.SpectrumMicrowave.com
NOTE:
1. MATERIAL: HOUSING ALUMINUM, NICKEL PLATED

DATE CODE

API
BXMP1029

EMI FILTER
GROUND LUG

4X 2-56 UNC ¥ .13(3.23)

CAUTION
THIS ASSEMBLY CONTAINS PARTS SENSITIVE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). USE ESD PRECAUTIONARY PROCEDURES WHEN TOUCHING, REMOVING OR INSERTING

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